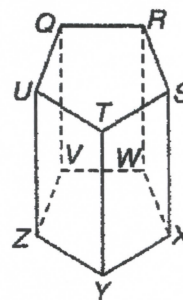


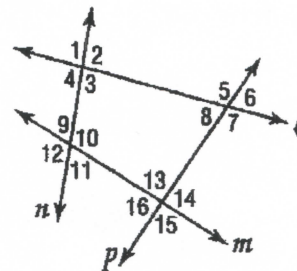
For #1 – 5, refer to the picture at the right to answer the questions (TARGET A)

1. Name a segment that intersects \overline{QU} $\overline{QR}, \overline{UT}, \overline{UZ},$ or \overline{QV}
2. Name a segment that is parallel to \overline{XY} \overline{TS}
3. Name a segment that is skew to \overline{VW} $\overline{UZ}, \overline{TY}, \overline{SX}, \overline{TU},$ or $\overline{TS},$
4. Name a segment that is skew to \overline{UZ} $\overline{QR}, \overline{RS}, \overline{ST}, \overline{VW}, \overline{WX},$ or \overline{YX}
5. Name a segment that is parallel to \overline{TY} $\overline{UZ}, \overline{QV}, \overline{RW},$ or \overline{SX}



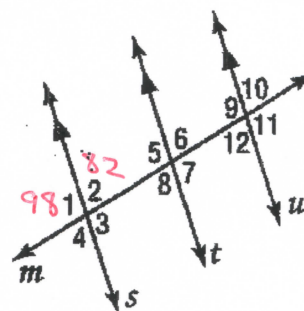
Identify each pair of angles as *alternate interior*, *alternate exterior*, *corresponding* or *consecutive interior*. (TARGET B)

6. $\angle 9$ and $\angle 13$
CORRESPONDING
7. $\angle 6$ and $\angle 16$
ALTERNATE EXTERIOR
8. $\angle 3$ and $\angle 10$
CONSECUTIVE INTERIOR
9. $\angle 8$ and $\angle 14$
ALTERNATE INTERIOR
10. $\angle 4$ and $\angle 8$
CORRESPONDING
11. $\angle 1$ and $\angle 7$
ALTERNATE EXTERIOR



In the figure at the right, $m\angle 1 = 98^\circ$. Find the measure of each angle. (TARGET C)

12. $\angle 2$ 82°
13. $\angle 3$ 98°
14. $\angle 4$ 82°
15. $\angle 5$ 98°
16. $\angle 6$ 82°
17. $\angle 7$ 98°
18. $\angle 8$ 82°
19. $\angle 9$ 98°
20. $\angle 10$ 82°
21. $\angle 11$ 98°
22. $\angle 12$ 82°



For #23-28, solve for the missing variables if $l \parallel m$ (TARGET D)

23. CONSECUTIVE INTERIOR

$$(2x + 6) + 130 = 180$$

$$2x + 136 = 180$$

$$\underline{-136 \quad -136}$$

$$\frac{2x}{2} = \frac{44}{2}$$

$x = 22^\circ$

24. ALTERNATE INTERIOR

$$6x + 4 = 8x - 8$$

$$12 = 2x$$

$$6 = x$$

$x = 6^\circ$

25. ALTERNATE EXTERIOR

$$7x - 24 = 5x + 18$$

$$\underline{-5x \quad -5x}$$

$$2x - 24 = 18$$

$$\underline{+24 \quad +24}$$

$$\frac{2x}{2} = \frac{42}{2}$$

$x = 21^\circ$

26. ALTERNATE INTERIOR

$$9x + 1 = 8x + 8$$

$$\underline{-8x \quad -8x}$$

$$x + 1 = 8$$

$$\underline{-1 \quad -1}$$

$$x = 7$$

$x = 7^\circ$

27. CONSECUTIVE EXTERIOR

$$(7x - 5) + (5x + 19) = 180$$

$$12x + 14 = 180$$

$$\underline{-14 \quad -14}$$

$$\frac{12x}{12} = \frac{166}{12}$$

$$x = 13\frac{5}{6}$$

$$13.8^\circ$$

$x = 13.8^\circ$

28. CONSECUTIVE INTERIOR

$$(3x + 10) + (5x + 18) = 180$$

$$8x + 28 = 180$$

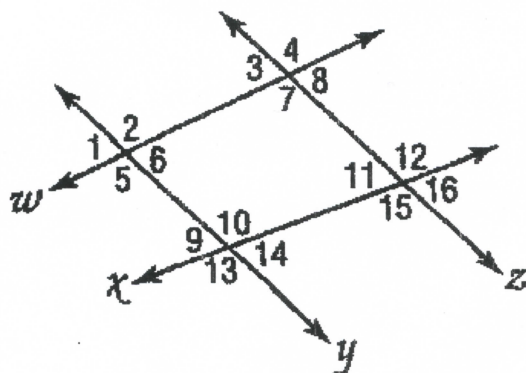
$$\underline{-28 \quad -28}$$

$$\frac{8x}{8} = \frac{152}{8}$$

$$x = 19$$

$x = 19^\circ$

For #29 - 34, determine which pair of lines is parallel using the given information (TARGET E)



29. $\angle 7 \cong \angle 12$ $w \parallel x$

30. $\angle 9 \cong \angle 16$ $y \parallel z$

31. $\angle 1 \cong \angle 3$ $y \parallel z$

32. $\angle 5 + \angle 9 = 180^\circ$ $w \parallel x$

33. $\angle 10 + \angle 11 = 180^\circ$ $y \parallel z$

34. $\angle 7 \cong \angle 2$ $y \parallel z$